

## SCD H™ SERIES // HIGH PERFORMANCE UV SYSTEMS

Aquafine's SCD H™ series provides TOC and chlorine destruction solutions for high volume, ultrapure, waste or reclaim applications.



**MODEL SHOWN:** SCD H 1350 // **INDUSTRIES:** Food & Beverage, Life Sciences, Microelectronics, Power Generation // **FLOWRATES:** 60-170 GPM @ 95% UVT, 70-200 GPM @ 99% UVT // **APPLICATIONS:** TOC, Chlorine Destruction // **DESIGN CAPABILITIES:** Modular Skid Systems

### SCD H SERIES

These systems consists of 316L stainless steel treatment chamber and a UL TYPE-1 painted carbon steel control cabinet, with a maximum cable length of 15 feet (5 meters). The control cabinet features a microprocessor-based controller. The units compact size reduces footprint and maximizes installation flexibility. Aquafine's sing-ended (SE) HX lamps allows for quick change-outs without tools.

By utilizing our modular skid configurations, less floor space is consumed and higher flow rates can be treated. Aquafine's SCD H ultraviolet (UV) systems are innovative, reliable and extensively proven in ultrapure applications around the globe.

Aquafine TOC and chlorine destruction systems can be found worldwide in state-of-the-art microelectronic facilities and life science applications, where meeting stringent criteria of the cGMP and full acceptance by the FDA are mandatory.

### UV Technology

Aside from being environmentally responsible, UV light technology for water treatment has several advantages. Aquafine utilizes UV light in a 185nm wavelength to effectively reduce TOC in ultrapure water applications and residual chlorine in make up water. This energy, more powerful than 254nm used in disinfection applications, promotes the formation of free radicals, leading to the oxidation of organics into CO<sub>2</sub> and H<sub>2</sub>O.

### Safe & Effective

UV disinfection is a chemical-free process that adds nothing to the water except UV light. It provides rapid, effective inactivation of microorganisms through a physical process. When bacteria, viruses and protozoa are exposed to the germicidal wavelengths of UV light, they are rendered incapable of reproducing and infecting. No carcinogenic disinfection by-products are created, and no transportation, storage or handling of toxic or corrosive chemicals is necessary.

### Guaranteed Performance and Support Services

All of our systems come with a lifetime disinfection guarantee. Customer support is available from our Authorized Distributor Network and from our 24/7 Technical Service Group.

For questions regarding your application needs, please contact your local Authorized Distributor or Aquafine for more information.

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Model: SCD H	600 H	700 H	1000 H	1200 H	1350 H	1450 H	1550 H	1750 H
<b>MAXIMUM FLOW RATE</b>								
[@ 95% UVTI] GPM [M <sup>3</sup> /HR]*	60 [14]	65 [15]	95 [22]	115 [26]	130 [30]	140 [32]	155 [35]	170 [39]
[@ 99% UVTI] GPM [M <sup>3</sup> /HR]*	70 [16]	80 [18]	115 [26]	135 [31]	150 [34]	165 [38]	185 [42]	200 [45]
NUMBER OF UV LAMPS (HX SINGLE-ENDED)	16	20	24	36	40	44	40	44
<b>ELECTRICAL REQUIREMENTS</b>								
ELECTRICAL SUPPLY	120-240V/50-60Hz, SINGLE PHASE, 2 W + GND							
OPERATING POWER (NOMINAL WATTS)	2700	3250	3800	5700	6250	6800	6250	6800
<b>CONTROLLER/DETECTOR</b>								
UV G400 SERIES	STANDARD							
LAMP STATUS INDICATOR	STANDARD							
LAMP OUT ALERT (LOA)	STANDARD							
RUNNING TIME METER/CYCLE COUNTER	STANDARD							
HAND OFF AUTO (HOA) 24VDC	STANDARD - OTHER VOLTAGES AVAILABLE							
UV & TEMPERATURE DETECTOR	STANDARD [OPTIONAL ANALOG OUTPUT MODULE AVAILABLE]							
<b>CONTROL CABINET</b>								
CONTROL CABINET SYSTEM RATING	C.S. - UL TYPE 1, S.S. - UL TYPE 3R**							
MATERIALS OF CONSTRUCTION	PAINTED CARBON STEEL (STAINLESS STEEL OPTIONAL)							
REMOTE CABINET	OPTIONAL							
ENCLOSURE HIGH TEMP WARNING	STANDARD							
CABINET DIMENSIONS INCHES C.S. (S.S.)	22 X 30 X 16 [22 X 39 X 16]		30 X 30 X 16 [30 X 39 X 16]			787 X 787 X 406 [762 X 990 X 406]		
<b>TREATMENT CHAMBER</b>								
MATERIALS OF CONSTRUCTION	316L STAINLESS STEEL							
INTERNAL SURFACE FINISH	Ra 32 (Ra 15 OPTIONAL)							
OPERATING TEMPERATURE °F (°C)	Water: 40° - 104° [4° - 40°] Ambient Air: 35° - 100° [2° - 38°]							
MAX. OPERATING PRESSURE PSI (BAR)	150 [10]							
INLET/OUTLET FLANGE SIZE INCHES	3 / 2, or 4		4 / 2 or 3		4 / 3 or 6			
STANDARD/OPTIONAL [MM]	(80 / 50 or 100)		(100 / 50 or 80)		(100 / 80 or 150)			

\* Dose Level: >600 mJ/cm<sup>2</sup> after 9,000 hours of operation.

\*\* Available for stand alone units only. Skid systems available in UL TYPE-12 Painted Carbon Steel Enclosure only.



**North America & International**  
 29010 Ave Paine, Valencia, CA 91355  
 P +1 661 257 4770 F +1 661 257 2489  
 sales@aquafineuv.com | www.aquafineuv.com

**Europe**  
 Ramskamp 77-85 D-25337 Elmshorn, Germany  
 P +49 4121 57806 13 F +49 4121 57806 30  
 saleseu@aquafineuv.com | www.aquafineuv.com



**Victory House**  
 Victory Park Road  
 Addlestone, Surrey  
 KT15 2AX  
 T: 01932 852423  
 F: 01932 847170  
 E: sales@kkwater.com  
 www.kkwater.com